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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/687,436	10/13/2000	Alan H. Karp	10992795	8480
75	590 08/23/2004		EXAM	INER
HEWLETT-PACKARD COMPANY			VO, LILIAN	
Intellectual Pro P. O. Box 2724	perty Administration 00		ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)	1,)
Advisory Action	09/687,436	KARP ET AL.	(*()
Advisory Action	Examiner	Art Unit	
	Lilian Vo	2127	
The MAILING DATE of this communication ap	pears on the cover sheet w	ith the correspondence address	/-
THE REPLY FILED 19 July 2004 FAILS TO PLACE T Therefore, further action by the applicant is required to final rejection under 37 CFR 1.113 may <u>only</u> be either: condition for allowance; (2) a timely filed Notice of App Examination (RCE) in compliance with 37 CFR 1.114.	o avoid abandonment of th (1) a timely filed amendmoeal (with appeal fee); or (is application. A proper reply to ent which places the applicatio	o a on in
PERIOD FOR F	REPLY [check either a) or	b)]	
a) The period for reply expiresmonths from the mailing	•		
b) The period for reply expires on: (1) the mailing date of this A event, however, will the statutory period for reply expire later ONLY CHECK THIS BOX WHEN THE FIRST REPLY WA 706.07(f).	than SIX MONTHS from the mail	ing date of the final rejection.	
Extensions of time may be obtained under 37 CFR 1.136(a). The have been filed is the date for purposes of determining the period of ext 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shorter (b) above, if checked. Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.704(b).	tension and the corresponding am ned statutory period for reply origin	ount of the fee. The appropriate extensionally set in the final Office action; or (2) as	on fee under s set forth in
1. A Notice of Appeal was filed on Appellar 37 CFR 1.192(a), or any extension thereof (37 CFR)		,	
2. The proposed amendment(s) will not be entered	because:		:
(a) \square they raise new issues that would require fur	ther consideration and/or	search (see NOTE below);	
(b) they raise the issue of new matter (see Note	e below);		
(c) they are not deemed to place the application issues for appeal; and/or	n in better form for appea	by materially reducing or simp	lifying the
(d) they present additional claims without cand NOTE:	celing a corresponding nur	nber of finally rejected claims.	
3. Applicant's reply has overcome the following rej	ection(s):		
4. Newly proposed or amended claim(s) wou canceling the non-allowable claim(s).	uld be allowable if submitte	ed in a separate, timely filed am	nendment
5. ☑ The a) ☐ affidavit, b) ☐ exhibit, or c) ☑ request application in condition for allowance because:			lace the
6. The affidavit or exhibit will NOT be considered to raised by the Examiner in the final rejection.	pecause it is not directed S	SOLELY to issues which were n	ewly
7. For purposes of Appeal, the proposed amendme explanation of how the new or amended claims			an
The status of the claim(s) is (or will be) as follow	vs:		
Claim(s) allowed: None.			
Claim(s) objected to:			
Claim(s) rejected: <u>1 - 17</u> .			
Claim(s) withdrawn from consideration: None.			
8. The drawing correction filed on is a) a	pproved or b)☐ disappro	oved by the Examiner.	
9. Note the attached Information Disclosure Staten			
10.⊠ Other: See Continuation Sheet	, , ,	1.1	A .
TO ES Other. See Continuation Sheet		MENG-AL T. EXPERTISORY PATENT Art UBIT! 24270GY CENT	t examiner
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U.S. Patent and Trademark Office PTOL-303 (Rev. 11-03)

Advisory Action

Part of Paper No. 08192004

Continuation of 10. Other:

1. In response to applicants' remark that figs. 3 and 10 of Bechtolsheim cannot satisfy claim 1, (page 6, 6th paragraph, page 7, 3rd paragraph and page 8, paragraphs 7 - 8), the examiner disagrees. Figures 3 and 10 together with the other citations such as col. 10, line 65 - col. 11, line 1 were used to support the rejection of denying request if the request if allowed would cause a grand total allocation of resource to exceed the limit and granting the request otherwise in which the packet is tagged if the buffer count (resource grand total allocation) is greater than the dynamic buffer limit (fig. 3, 340). If the packet is tagged, it is dropped and therefore will not be transmitted to the destination address (col. 10, line 65 - col. 11, line 1). In other words, buffer count has a limit and if the request would result in exceeding the resource availability, the request is not accepting. Therefore, fig. 3 clearly read on the last step of claims (1 and 11) language.

Similarly, fig. 10 shows the comparision of the number buffer of free buffer cells with a reserve number of buffer cells and the comparision of the buffer count with a dynamic buffer limit. In other words, if the number of free cells on its arrival is less than the total reserve set aside for packets, then the packet is tagged (col. 13, lines 46 - 49 and fig. 10: 1005 and 1010 which shows if the size of the arrival packet if greater than the reserve set aside, the packet is tagged (dropped). Applicants misinterpreted the illustration of fig. 10 by stating that "if the number of free cells is already greater than the reserve value, then any incoming packet would be denied, regarless of the resource requirement of the incoming packet (page 8, 1st paragraph). This is incorrect. The number of free cells is the resource availability and the reserve value is the total value set aside for the incoming packets (packets size). Fig. 10 shows a comparision between the allocated/reserved space with the incoming packets size. This clearly take into the consideration of the resource requirement of the incoming packets.

- 2. In response to applicants' remark that fig. 9 of Bechtolsheim does not disclose the subject matter of claim 1, (page 7, 2nd paragraph), the examiner disagrees. Figure 9 was used to support the rejection of the soft limit and hard limit usage. As for the "high water mark" limitation, this response is can bee found as stated above, which is interpreted as the limit/threshold for the resource as a whole. Therefore, fig. 9 clearly teaches the usage of soft limit and hard limit as cited in the office action.
- 3. In response to applicants' argument that "the current obviousness rejection is a classic example of picking and choosing arbitrary elements from unrelated prior art references in an attempt to piece together unrelated elements to achieve the claimed invention, where no motivation or suggestion existed for the combination" (page 9, 3rd paragraph), the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See In re Keller, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).
- 4. In response to applicants' argument (page 9, 3rd paragraph and page 10, 2nd paragraph) that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the motivation for the rejection is found in the knowledge generally available to one of ordinary skill in the art.
- 5. In response to applicant's argument that "...Harris fails to disclose or suggest the feature of entering a reduction mode for handling a subsequent requests for allocation of the resource" in col. 12, line 38 col. 13 line 22 (page 10, 3rd paragraph), a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See In re Casey, 152 USPQ 235 (CCPA 1967) and In re Otto, 136 USPQ 458, 459 (CCPA 1963).

Furthermore, Harris discloses that allocation resource to user is made smaller portion during the reduction time when users hit their limits (col. 12, lines 38 – 45). In other words, an additional or subsequent request for resource allocation would be reduced (granted in a smaller portion) to avoid exceeding the allowance limit. The cited passage clearly read on the claim language. Therefore, the examiner has met a prima facie case of obviousness requirement.

Regarding applicants' remarks with the cited passages such as col. 11, lines 66 - 67, col. 10, lines 17 - 22, 32 - 35, they were not used to support the rejection of claim.

6. Regarding applicants' remark that claim 3 rejection did not provide explanation about low water mark and how it is used and/or disclosed by Bechtolsheim or Harris (page 11, 2nd paragraph), an explanation of the rejection is set forth below. Claim 3 depends on claim 2, which claims about handling the resource allocation in a reduction mode with a low water mark determination. The examiner analyzes the term low water mark as a threshold limit during a reduction mode. By this, it is obvious to one of ordinary skill in the art to recognize that Harris' invention is capable of providing this feature according to passage in col. 12, lines 38 – 45, with the concept of allocating resource to user in a smaller portion during the reduction time when users hit their limits (low water mark). In other words, an additional or subsequent request 2 for resource allocation would be reduced to avoid exceeding the

Continuation Sheet (PTO-303)

allowance limit (low water mark) and if the request were above the allowance limit it would not be granted. Therefore, the examiner has satisfied the prima facie case of obviousness requirement for claim 3.

- 7. With respect to claim 16, it is rejected for the similar reasons as set forth in the response to claim 3 above.
- 8. With respect to claims 12 and 15, it is rejected for the similar reasons as set forth in the response to claims 2 and 3 above.
- 9. Regarding claim 17, it would be obvious to one of ordinary skill in the art to recognize that Harris' invention is capable of providing this feature with the concept of allocating resource to user in a smaller portion during the reduction time when users hit their limits (low water mark). In other words, an additional or subsequent request for resource allocation would be reduced to avoid exceeding the allowance limit (low water mark) and if the request were above the allowance limit it would not be granted (applicants' specification page 12, lines 13 15). By granting the request, it is automatically entering the normal mode (according to the specification page 12, lines 15 16). Therefore, the combination of Bechtolsheim and Harris suggested the feature of claim 17. Thus, the examiner has satisfied the prima facie case of obviousness requirement for claim 17 as set forth above.

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